



PATENT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

For : Reissue of U.S. Patent No. 5,791,422
Patentee : Dah Ben Liang, et al.
Patent No. : 5,791,422
Patent Issue Date : August 11, 1998
Title : ROCK BIT WITH HARDFACING MATERIAL
INCORPORATING SPHERICAL CAST
CARBIDE PARTICLES

Docket No. : 36912/CM/S61

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DECLARATION FOR REISSUE PATENT APPLICATION

Assistant Commissioner for Patents
Washington, D.C. 20231

Post Office Box 7068
Pasadena, CA 91109-7068

Commissioner:

As a below named inventor, I hereby declare that I reside at the address listed below, I am a citizen of the United States of America, and I believe I am an original, first and joint inventor of the subject matter described and claimed in U.S. Patent No. 5,791,422 (the "'422 Patent"), issued on August 11, 1998, for which a reissue patent is sought on the invention entitled ROCK BIT WITH HARDFACING MATERIAL INCORPORATING SPHERICAL CAST CARBIDE PARTICLES, the specification of which is attached hereto. The application for the '422 Patent was filed on March 12, 1997, as Application Serial No. 08/815,745 (the "'745 Application").

I acknowledge the duty to disclose information known to me to be material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I believe that the '422 Patent is partially inoperative because none of the claims in the '422 Patent are directed to a rock bit comprising a cutting cone having a number of teeth which include a hardfacing comprising spherical cast tungsten carbide particles having a particle size less than 40 mesh without also limiting such tungsten carbide particle size to a range to about 16 mesh. The novelty of this aspect of my invention was erroneously overlooked, as I did not appreciate the full

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scope of the invention being claimed at the time the '745 Application was filed and during its prosecution. My failure to recognize the full scope of the invention being claimed was inadvertent as is evidenced by the fact that although this novel feature was described in the specification of the '745 Application, it was not broadly claimed. As a result of this failure, I claimed less than I had a right to claim in the '422 Patent. This error arose without any deceptive intention on my part.

I hereby state that I have reviewed and understand the content of the above-identified application, including the original claims 1-27 and the added reissue claims 28-38 which are directed to a rock bit comprising a cutting cone having a number of teeth comprising a hardfacing comprising steel and spherical tungsten carbide particles.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the reissue application or any patent issuing thereon.

Dated: JAN. 29, 2001

Dah-Ben Liang

Dah-Ben Liang
27 Rustic View Court
The Woodlands, Texas 77381

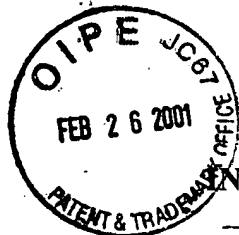
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Dated: 1-29-01

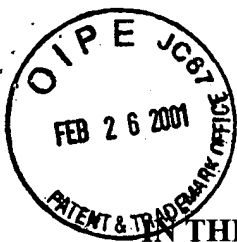
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Dated: 1/31/01

 1/31/01
Zhigang Fang
230 South Crimson Clover Circle
The Woodlands, Texas 77381

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

09/637,764

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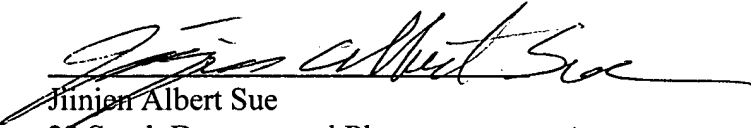
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Dated: 1/21/2001


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